BRUHAT BANGALORE MAHANAGARA PALIKE

Project:Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No 06 Byatarayanapura Sub Division

Est Cost: 25.00Lakhs

Sl. No	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
		Cum							
	Desilt								
	1st Cross LHS		1	30	0.7	0.60	12.60		
	New CC Drain								
	1st Cross LHS		1	30.00	0.95	0.90	25.65		
	1st Cross RHS		1	60.00	0.95	0.90	51.30		
	2nd Cross		2	70.00	0.95	0.90	119.70		
	4th Cross		2	52.00	0.95	0.90	88.92		
	Conneting Drain 4th Cross to Main Rd		1	38.00	0.95	0.90	32.49		
	Culverts		6	6.30	2.00	0.80	60.48		
							391.14	196.48	**76851.66**
	Basic rate	**82**							
	Loading and unloading with 10km lead= 68+2.5x1.28x10 = 100	**100**							
	AD HOC at 11%	**9.02**							
	Sub Total	**91.02**							
	Add Area Weightage	**5.46**							
	Final Rate	**196.48**							
2	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
	Bed Concrete	Sqm							
	1st Cross LHS		1	30.00	1.35		40.50		
	Consider 30% Damaged and Missing Slabs						-12.15		
							28.35	89.42	**2535.10**
	Basic rate	**76**							
	AD HOC at 11%	**8.36**							
	Sub Total	**84**							
	Add Area Weightage	**5.06**							
	Final Rate	**89.42**							
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)								
		Sqm							
	Consider 30% Damaged and Missing Slabs						12.15		
							12.15	738.90	**8977.69**
	Basic rate	**628**							
	AD HOC at 11%	**69.08**							
	Sub Total	**697**							
	Add Area Weightage	**41.82**							
	Final Rate	**738.90**							

Sl. No	Description of Item	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
4	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	New CC Drain								
	1st Cross LHS		1	30.00	0.95	0.10	2.85		
	1st Cross RHS		1	60.00	0.95	0.10	5.70		
	2nd Cross		2	70.00	0.95	0.10	13.30		
	4th Cross		2	52.00	0.95	0.10	9.88		
	Conneting Drain 4th Cross to Main Rd		1	38.00	0.95	0.10	3.61		
	Culverts		6	6.30	2.00	0.15	11.34		
	Flagging Course								
	1st Cross LHS		2	30.00	0.30	0.10	1.80		
							48.48	5937.12	**287831.75**
	Basic rate	**5046**							
	AD HOC at 11%	**555.06**							
	Sub Total	**5601**							
	Add Area Weightage	**336.06**							
	Final Rate	**5937.12**							
5	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)								
	Bottom Slab	Sqm							
	New CC Drain								
	1st Cross LHS		2	30.00	--	0.15	9.00		
	1st Cross RHS		2	60.00	--	0.15	18.00		
	2nd Cross		4	70.00	--	0.15	42.00		
	4th Cross		4	52.00	--	0.15	31.20		
	Conneting Drain 4th Cross to Main Rd		2	38.00	--	0.15	11.40		
							111.60	271.79	**30332.28**
	Basic rate	**231**							
	AD HOC at 11%	**25.41**							
	Sub Total	**256**							
	Add Area Weightage	**15.38**							
	Final Rate	**271.79**							
6	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)								
	Side Walls	Sqm							
	New CC Drain								
	1st Cross LHS		4	30.00	--	0.600	72.00		
			4	60.00	--	0.600	144.00		
			8	70.00	--	0.600	336.00		
			8	52.00	--	0.600	249.60		
			4	38.00	--	0.600	91.20		
							892.80	344.74	**307787.26**
	Basic rate	**293**							
	AD HOC at 11%	**32.23**							
	Sub Total	**325**							
	Add Area Weightage	**19.51**							
	Final Rate	**344.74**							

Sl. No	Description of Item	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
7	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges)								
	Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main, and								
	Culvert	Cum							
	Bottom Slab								
	New CC Drain								
	1st Cross LHS		1	30.00	0.75	0.15	3.38		
			1	60.00	0.75	0.15	6.75		
			2	70.00	0.75	0.15	15.75		
			2	52.00	0.75	0.15	11.70		
			1	38.00	0.75	0.15	4.28		
	Side Walls								
	New CC Drain								
	1st Cross LHS		2	30.00	0.15	0.60	5.40		
			2	60.00	0.15	0.60	10.80		
			4	70.00	0.15	0.60	25.20		
			4	52.00	0.15	0.60	18.72		
			2	38.00	0.15	0.60	6.84		
							108.81	6917.23	**752663.95**
	Basic rate	**5879**							
	AD HOC at 11%	**646.69**							
	Sub Total	**6526**							
	Add Area Weightage	**391.54**							
	Final Rate	**6917.23**							
8	KSRB - 4.9.2: Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.2 of PW, P&IWTD SR								
	Consider 50Kgs/cum for item No. only RCC Drain Qty	Tonne		108.81	0.050	--	5.45		
							5.45	81797.23	**445794.91**
	Basic rate	**69520**							
	AD HOC at 11%	**7647.2**							
	Sub Total	**77167**							
	Add Area Weightage	**4630.03**							
	Final Rate	**81797.23**							
9	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2016-17)								
		Sqm							
	Culverts		12	6.30	0.60	0.60	27.22		
	Flagging Course								
	1st Cross LHS		1	30.00	0.45	0.23	3.11		
							30.32	4926.42	**149374.11**
	Basic rate	**4187**							
	AD HOC at 11%	**460.57**							
	Sub Total	**4648**							
	Add Area Weightage	**278.85**							
	Final Rate	**4926.42**							

Sl. No	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
10	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (P.No.25, I.No.5.26.2 of PW, P&IWTD SR 2016-17)								
		Sqm							
	1st Cross LHS		1	30.00		0.20	6.00		
							6.00	1067.18	**6403.06**
	Basic rate	**907**							
	AD HOC at 11%	**99.77**							
	Sub Total	**1007**							
	Add Area Weightage	**60.41**							
	Final Rate	**1067.18**							
11	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17)								
		Sqm							
	Culverts		12	6.30	--	0.60	45.36		
	1st Cross LHS		1	30.00	--	0.23	6.90		
							52.26	114.13	**5964.44**
	Basic rate	**97**							
	AD HOC at 11%	**10.67**							
	Sub Total	**108**							
	Add Area Weightage	**6.46**							
	Final Rate	**114.13**							
12	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)								
		Cum							
	Culverts		12	6.30	0.60	0.10	4.54		
	1st Cross LHS		2	30.00	0.30	0.08	1.35		
							5.89	6401.88	**37681.47**
	Basic rate	**5441**							
	AD HOC at 11%	**598.51**							
	Sub Total	**6040**							
	Add Area Weightage	**362.37**							
	Final Rate	**6401.88**							
13	Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
		Sqm							
	Culverts		6	6.30	1.80	--	68.04		

Sl. No	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
							68.04	5317.00	361768.68
	Data Rate =5317								
								Total Construction Cost	2473966.360
15		Cost towards Design Report , PMC / Third Party inspection LS							24739.66
17								Miscellaneous and rounding off	1293.98
								Total	2500000.00

Certificate.

1 The workspot was inspected and Provisions made in the estimate are adequate and necessary.
2 Work Spot comes under BBMP limits.
3 The estimate based on PWD CSR for the year 2016-17.
4 This work is not split up.
5 These works are not taken up in any other grants and free from Defect Liability Period.
6 Earlier Improvements taken up in the proposed roads are recorded in earlier road history.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು-560092.

Administrative Approval
Accorded For 25.00 Lakhs
Head of A/C P1771
CER NO : 301 08-02-2018.

TA CE (YNK)

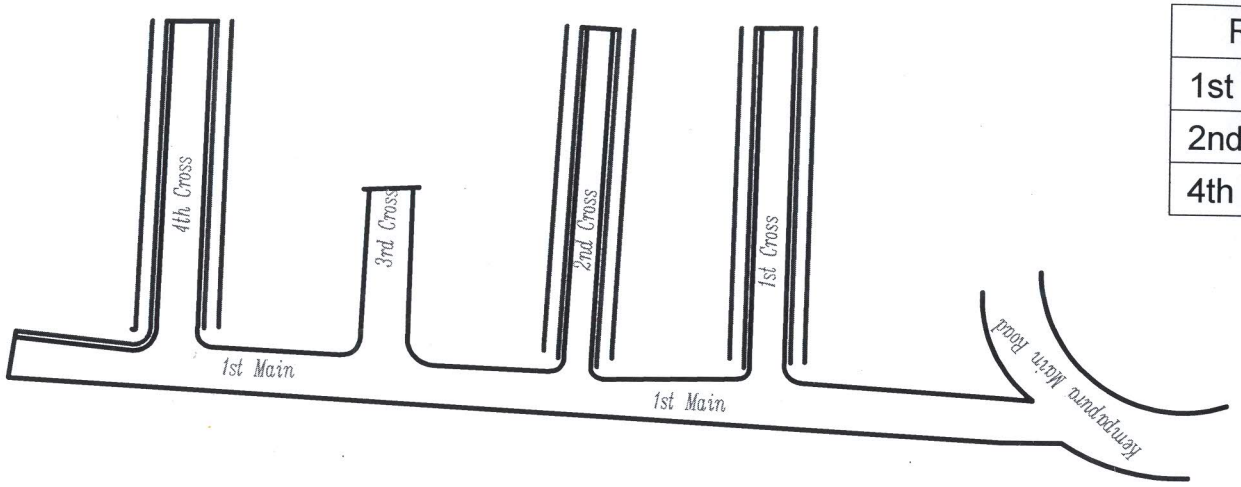
Technical Sanction
Accorded For 25.00 Lakhs
Head of A/C P1771
CER NO 666 16-02-2018

TA CE (YNK)

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

BRUHAT BANGALORE MAHANAGARA PALIKE

Improvements to Roads and Construction of RCC Drains at Maruthi Layout 1st, 2nd and 4th Cross in Ward No 06 Byatarayanapura Sub Division



Road Name	Length
1st Cross	60m
2nd Cross	70m
4th Cross	52m

Maruthi Layout

NOTE:-

1. ALL DIMENSION & LEVELS ARE Mts. UNLESS OTHERWISE MENTIONED.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	DESCRIPTIONS	SIGN

LEGEND:-

Asphalt Road

Drain

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

TITLE: STRIP PLAN 1/1

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT